

nymph ex. *Rubus ellipticus*, Nainital, 4.xii.79.
Mollitrichosiphum buddlejae Ghosh, Banerjee
 and Raychaudhuri: 2 apterae viviparae and
 1 nymph ex. *Alnus nepalensis*, Almorah,
 17.iii.80.

Myzus cymballariellus Stroyan: 1 aptera vivi-
 para and 1 nymph ex. *Sedum* sp., Almorah,
 17.iii.80.

Pseudoastegopteryx himalayensis Ghosh, Pal
 and Raychaudhuri: 1 aptera vivipara and
 1 nymph ex. indet. bamboo plant, Almorah,
 17.iii.80.

Reticulaphis distylii rotifera Bille Ris Lambers
 and Takahashi: 2 apterae viviparae and 6

nymphs ex. *Quercus* sp., Nainital, 5.xii.79.

Rhopalosiphum nymphaeae (Linn.): 3 apterae
 viviparae, 1 alate vivipara and 1 nymph ex.
 an aquatic plant, Ranikhet, 8.xii.79.

Takecallis arundinariae (Essig): 2 alatae
 viviparae ex. *Bambusa* sp., Nainital, 4.xii.79.

Toxoptera odinae (van der Goot): 1 alate
 vivipara in yellow pan water trap, Almorah,
 19.iii.80.

We are grateful to the UGC, New Delhi
 for financing the work, the Head, deptt. of
 Zoology and the Incharge, deptt. of Life
 Science, Calcutta University for providing
 working facilities.

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23. NEW RECORD OF INSECT PESTS INFESTING KASTURI BHENDI, *HIBISCUS ABELOMOSCHUS* LINNAEUS, A MEDICINAL PLANT

Kasturi Bhendi, *Hibiscus abelomoschus* L. a
 useful medicinal plant has been reported to
 be attacked by the cotton shoot weevil, *Alci-
 dodes affaber* Aurivillius (Coleoptera: Curcu-
 lionidae) (Devaiah *et al.* 1981).

It was revealed in a survey made during
 August-September, 1980 at the Regional Re-
 search Station, University of Agricultural
 Sciences, Dharwad Campus, Karnataka that
 this plant is attacked by ten insect pests. These
 pests are being reported on this plant for the
 first time.

SPOTTED BOLLWORMS *Earias cupreovirides*
 Wlk. and *E. insulana* Boisd.

The adult moths laid eggs on the fruits and

the young ones after emergence bore into the
 flower buds and pods of the plant. The per-
 centage of incidence was 19.04. The cater-
 pillars make irregular tunnels evident by the
 excreta thrown out and completely damage the
 seeds of the pod. The number of grubs in each
 pod varied from 1 to 3 with an average of 2.
 The fully grown caterpillars pupate either
 within the pod or outside in silken cocoons.

TOBACCO LEAF EATING CATERPILLAR *Spodop-
 tera litura* F. feeds on the leaves also bores
 into the pods. The incidence of this pest is
 sporadic. The fully grown larvae pupate out-
 side the pod.

GRAM CATERPILLAR *Heliothis armigera* Hb.

MISCELLANEOUS NOTES

feeds on pods. The eggs were laid on the pods and young ones bore into the pods. The number of caterpillars in each pod varied from 1 to 2.

COTTON SEMI-LOOPER *Anomis flava* Fb. defoliates the plants by cutting the leaves. The incidence was sporadic.

RED COTTON BUG *Dysdercus cingulatus* Fb. Both nymphs and adults suck sap from the seeds of the ripening pod and renders the seeds unfit for further use. Average number of nymphs in an infested pod was 57. The infestation of this bug was found only when the pods were already infested by bollworms.

DUSKY COTTON BUG *Oxycarenus hyalinipennis* Costa. Both nymphs and adults of this bug

suck the sap from the dried opened pods and rendered the seeds useless. The average number of nymphs in an infested pod was 83. Similar to red cotton bug, the infestation of dusky cotton bug was also found only after the pods were infested by bollworms.

MYLLOCERUS BEETLE *Mylocerus undecimpustulatus* var. *maculosus* Desbr. The adults feed on the leaves from the margins. The number on each leaf varied from 1.0 to 2.0 with an average of 1.0. The beetles prefer tender leaves for feeding.

CETONID BEETLE *Oxycetonia versicolor* F. Feed on the soft and tender pods.

BLISTER BEETLE *Mylabris pustulata* (Thunb.) feeds on the flowers.

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REFERENCE

- DEVAIAH, M. C., RAJASHEKHARGOUDA, R., GOVINDAN, R., THIPPESWAMY, C. & YELSHETTY, SUHAS (1981): Kasturi bhendi, *Hibiscus abelomoschus* Linnaeus, a new host plant of cotton shoot weevil, *Alcidodes affaber* (Auriv.) (Curculionidae: Coleoptera). *Curr. Res.*, 10: 95.

24. A NEW RECORD OF *NEOPHEOSIA FASCIATA* (MOORE) ON APPLE

Neopheosia fasciata (Moore) (Notodontidae: Lepidoptera) was recorded for the first time, on apple at Regional Fruit Research Station, Mashobra, Simla during 1978-79. Caterpillars found feeding on apple foliage were reared and further studies were carried out in the laboratory.

Larva is pale green; head streaked with red lines; thoracic segments and legs green and abdomen brown dorsally and light green ventrally with a prominent brown process on dorsal side of the first abdominal segment.

Larva becomes full grown in 22-28 days and measures 3.8 to 4.0 cm. It defoliates apple during May-early June and during late July-August. Pupation occurs in loose silken threads on leaves in June and it lasts for 25-27 days. Larva of the second generation pupates during September-early October in debris or in crevices of the bark where it over-winters. Moth emerges after 230-270 days, in May, next year.

Adult is brown; fore wings pale brown with dark brown streaks on and below the costa, a series of short streaks on and towards the